

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P866192

Luminaire Tested: PRLX-2002-M-927-55L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-53)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-927-55L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

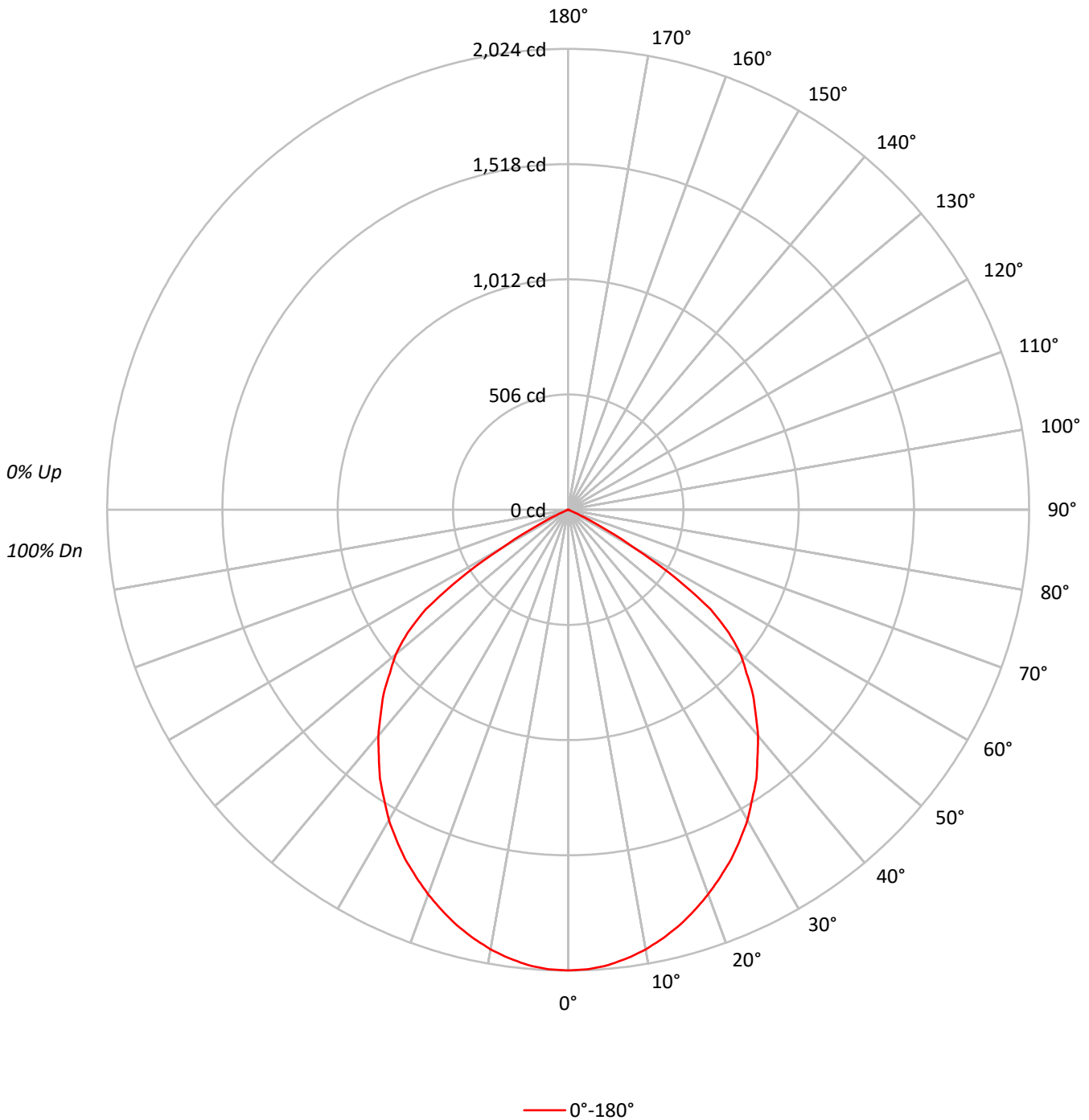
Lumens per Lamp: N/A
Luminaire Lumens: 4026.1 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	16098
5°	16037
10°	15839
15°	15563
20°	15217
25°	14860
30°	14461
35°	14001
40°	13464
45°	12906
50°	12228
55°	10587
60°	5418
65°	1050
70°	98
75°	129
80°	128
85°	128

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12906 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.1	4.7
10°-20°	532.0	13.2
20°-30°	779.0	19.3
30°-40°	899.0	22.3
40°-50°	881.5	21.9
50°-60°	640.5	15.9
60°-70°	98.2	2.4
70°-80°	3.9	0.1
80°-90°	1.9	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1501.2	37.3
0°-40°	2400.2	59.6
0°-60°	3922.1	97.4
0°-90°	4026.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4026.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2024	
5°	2008	190
15°	1890	532
25°	1693	779
35°	1442	899
45°	1147	881
55°	763	640
65°	56	98
75°	4	4
85°	1	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2023.5
2.5°	2020.7
5°	2008.1
7.5°	1987.2
10°	1960.7
12.5°	1927.2
15°	1889.5
17.5°	1844.9
20°	1797.4
22.5°	1745.8
25°	1692.8
27.5°	1634.1
30°	1574.1
32.5°	1504.4
35°	1441.6
37.5°	1364.8
40°	1296.4
42.5°	1218.3
45°	1147.1
47.5°	1062.0
50°	988.0
52.5°	888.9
55°	763.3
57.5°	563.8
60°	340.5
62.5°	161.9
65°	55.8
67.5°	14.0
70°	4.2
72.5°	4.2
75°	4.2
77.5°	2.8
80°	2.8
82.5°	2.8
85°	1.4
87.5°	1.4
90°	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	19.09	20.50	19.45	20.82	21.13	19.09	20.50	19.45	20.82	21.13
	3H	18.97	20.21	19.35	20.54	20.91	18.97	20.21	19.35	20.54	20.91
	4H	18.91	20.06	19.31	20.41	20.79	18.91	20.06	19.31	20.41	20.79
	6H	18.83	19.89	19.25	20.26	20.65	18.83	19.89	19.25	20.26	20.65
	8H	18.79	19.79	19.22	20.18	20.59	18.79	19.79	19.22	20.18	20.59
	12H	18.75	19.71	19.19	20.09	20.52	18.75	19.71	19.19	20.09	20.52
4H	2H	18.93	20.08	19.33	20.43	20.81	18.93	20.08	19.33	20.43	20.81
	3H	18.81	19.74	19.22	20.14	20.54	18.81	19.74	19.22	20.14	20.54
	4H	18.73	19.55	19.17	19.97	20.41	18.73	19.55	19.17	19.97	20.41
	6H	18.66	19.36	19.12	19.81	20.27	18.66	19.36	19.12	19.81	20.27
	8H	18.60	19.26	19.07	19.71	20.18	18.60	19.26	19.07	19.71	20.18
	12H	18.56	19.14	19.04	19.62	20.10	18.56	19.14	19.04	19.62	20.10
8H	4H	18.60	19.26	19.07	19.71	20.18	18.60	19.26	19.07	19.71	20.18
	6H	18.50	19.04	19.00	19.54	20.02	18.50	19.04	19.00	19.54	20.02
	8H	18.43	18.93	18.95	19.44	19.93	18.43	18.93	18.95	19.44	19.93
	12H	18.38	18.83	18.89	19.32	19.89	18.38	18.83	18.89	19.32	19.89
12H	4H	18.55	19.14	19.04	19.62	20.10	18.55	19.14	19.04	19.62	20.10
	6H	18.43	18.93	18.95	19.44	19.93	18.43	18.93	18.95	19.44	19.93
	8H	18.38	18.83	18.89	19.32	19.89	18.38	18.83	18.89	19.32	19.89